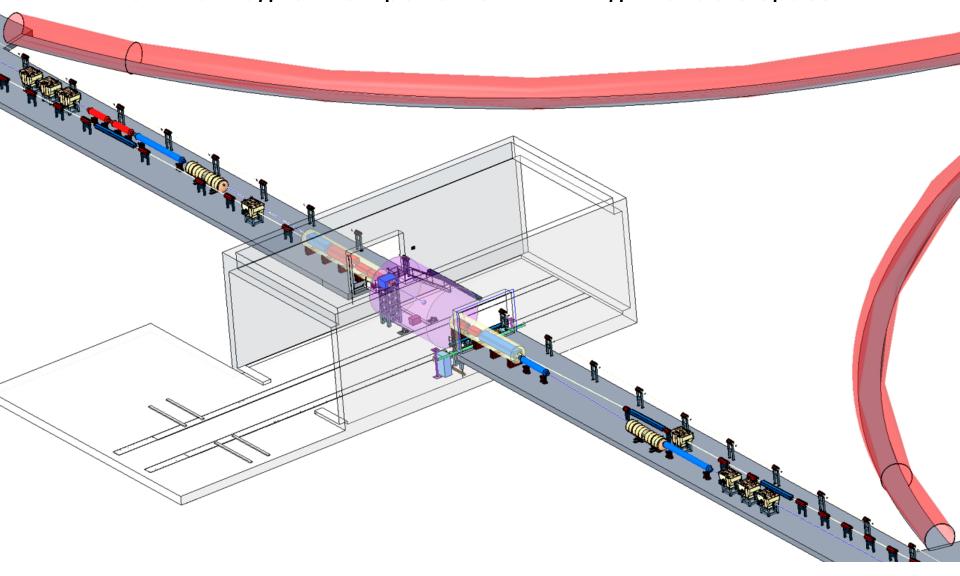
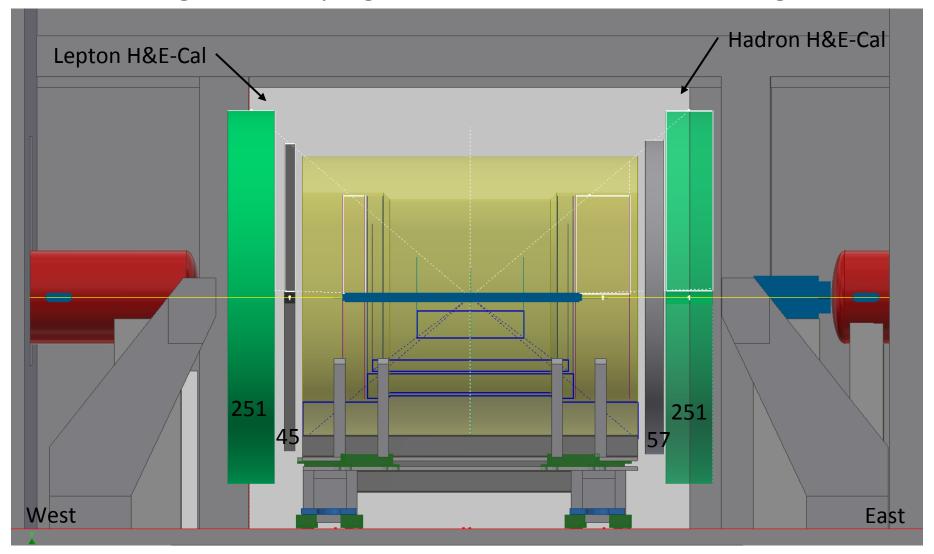
EIC Detector Infrastructure e-Rhic Magnet Components – Limiting Available Space

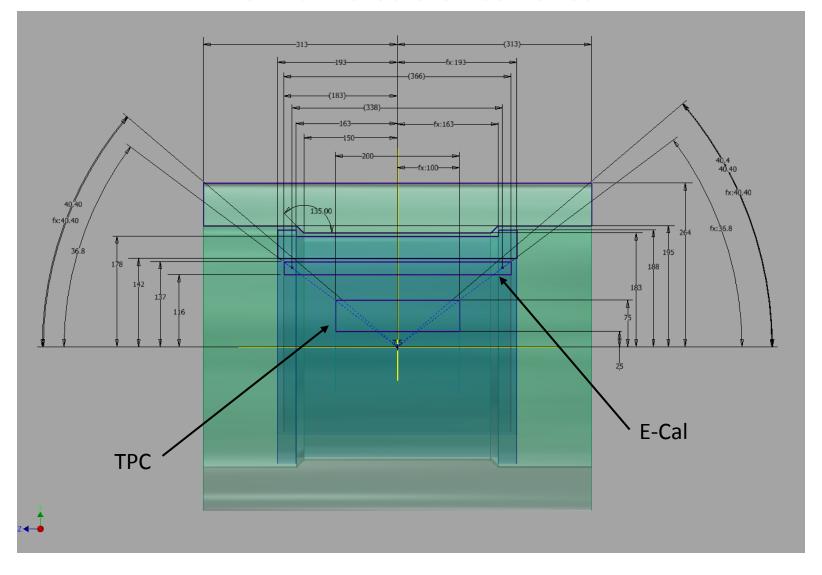


EIC Detector Infrastructure Sizing and Grouping Detectors for Cradles & Carriages



Positions and sizes of detectors changed to eliminate interference Estimated End-Cap Detector Weights shown (US Ton)

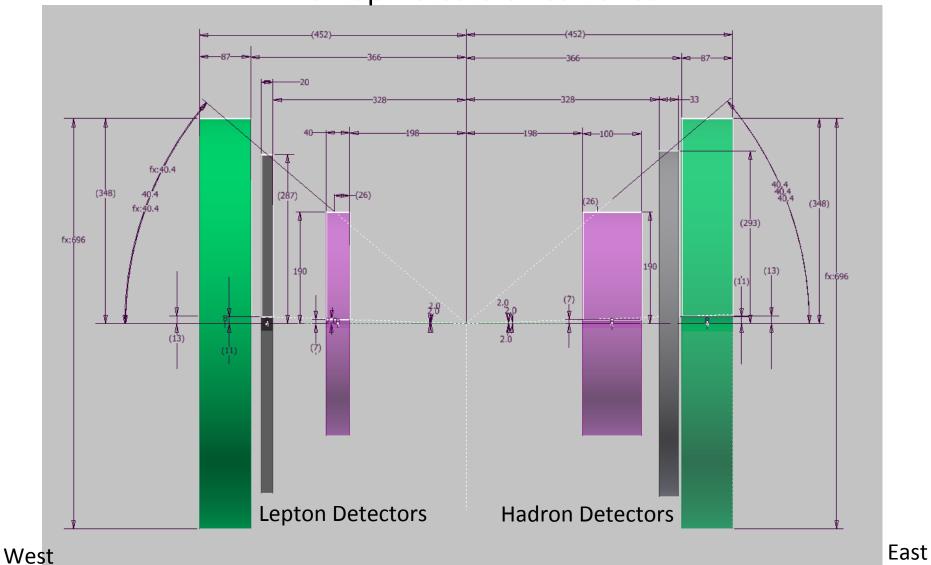
EIC Detector Infrastructure Central Detectors Positioned



West

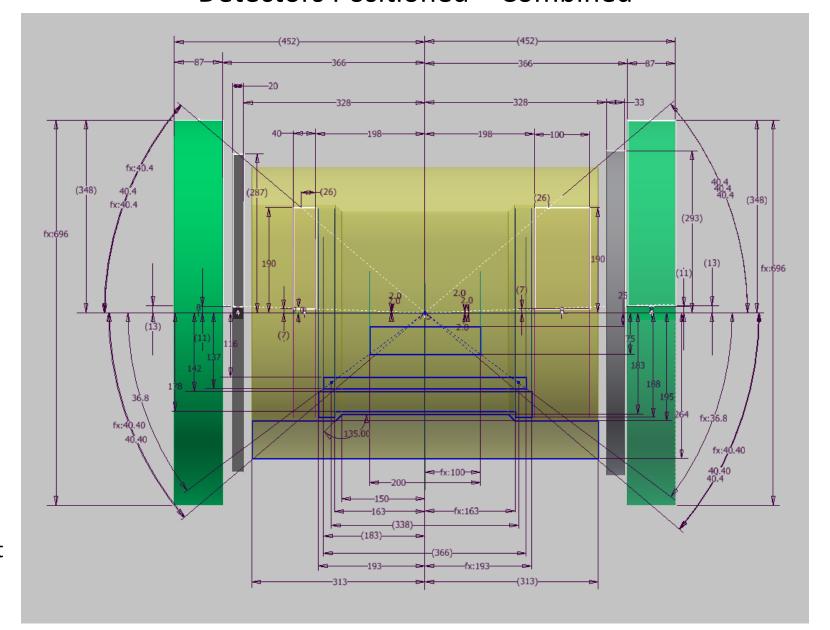
East

EIC Detector Infrastructure End-Cap Detectors Positioned



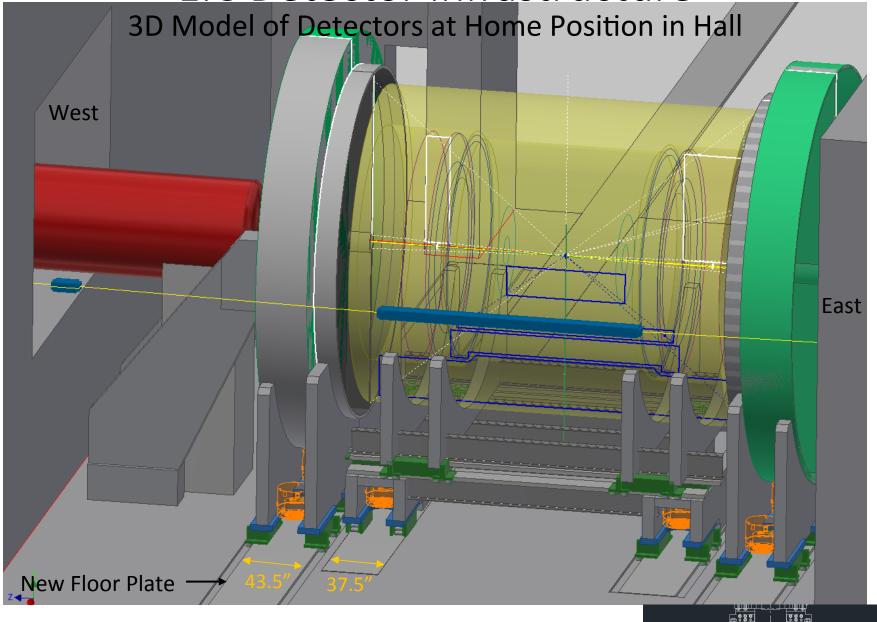
Pink = PID/RICH, Grey = ECAL, Green = HCAL

EIC Detector Infrastructure Detectors Positioned – Combined



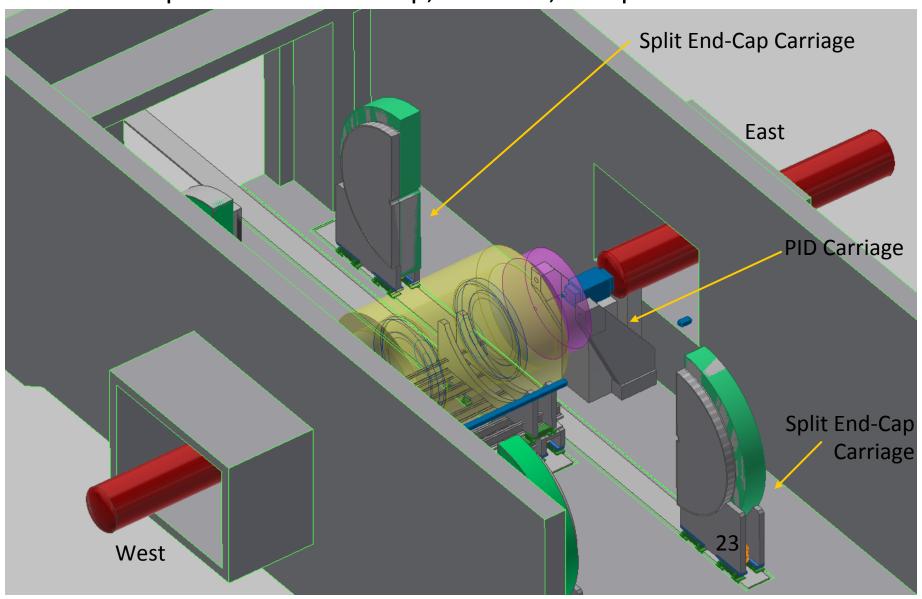
West

East



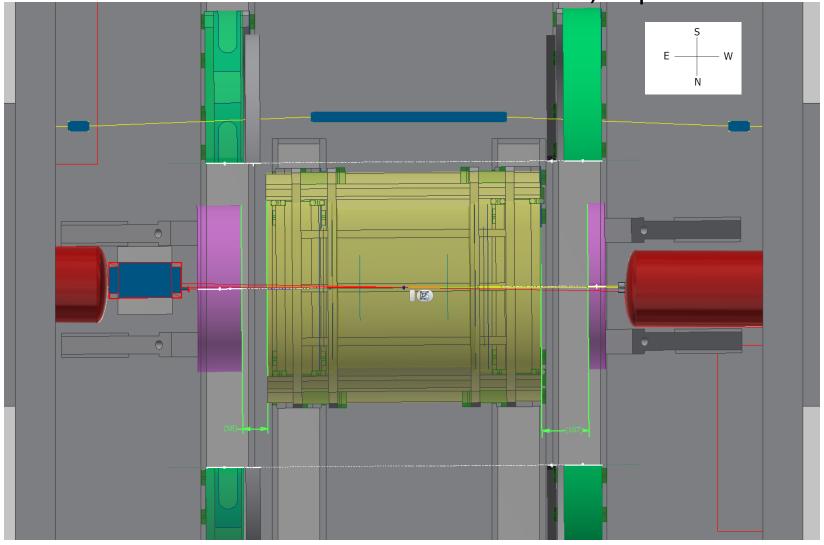
Additional tracks needed inside Hall to open Both End-Caps Gives access to eRhic Magnets & EIC-PIDs. Wider stance, for stability.

EIC Detector Infrastructure Split Hadron End-Cap, E&H-Cal, and pull out PID



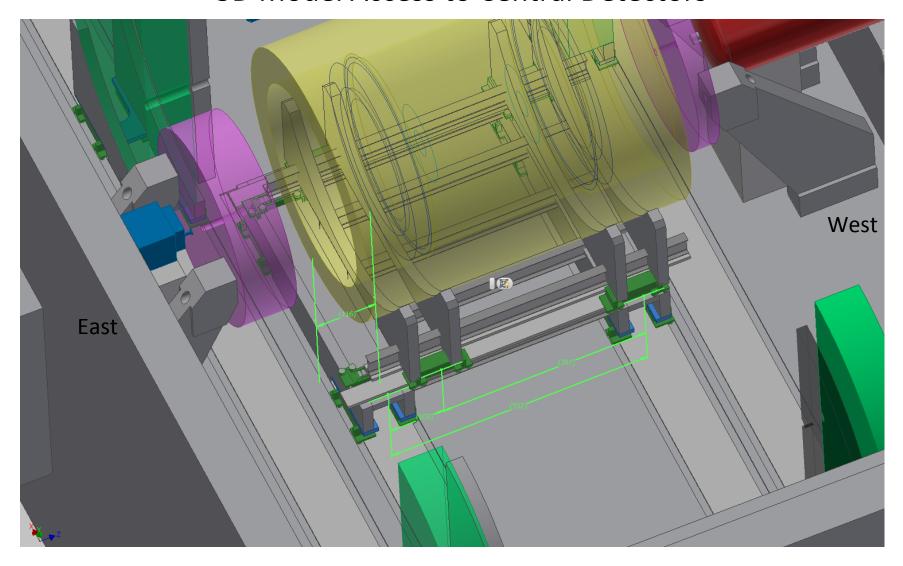
Note: Rough design for Upper Stability Frame is still needed

3D Model Access to Central Detectors, Top View



Hadron and Lepton PIDs pulled with carriages. Total clearance with Barrel at home position, 58 + 107 = 165 cm. Central Barrel Travels along Electron Beam Axis, either direction as needed, to access detectors inside barrel.

EIC Detector Infrastructure 3D Model Access to Central Detectors



View shows Central Barrel traveled 58 cm along Electron Beam Axis, to access detectors inside barrel - gives approximately 116 cm (46") clearance opening.

EIC Detector Infrastructure – BLDG 1006

Detectors separated and moved on carriage frames for service

